

WHAT IS CLAIMED IS:

1. A vehicle body front section structure comprising:

a pair of longitudinal frame members configured and arranged to extend in a lengthwise direction of a vehicle on both widthwise sides of a front compartment, each of the longitudinal frame members having a front end portion with a curved part disposed forwardly of a curvature transition point; and

a widthwise frame member having a back surface connected to the front end portions of the longitudinal frame members such that the widthwise frame member extends in the widthwise direction of the vehicle,

the curved parts being disposed at locations rearward connection points between the longitudinal frame members and the widthwise frame member such that a pair of wedge-shaped open spaces are formed between the back surface of the widthwise frame member and corresponding wall surfaces of the curved parts that faces the back surface of the widthwise frame member.

2. The vehicle body front section structure recited in claim 1, wherein each of the curved parts is formed as a separate entity from a main part of the longitudinal frame member and is connected to a front end of the main part of the longitudinal frame member.

3. The vehicle body front section structure recited in claim 1, wherein the curved parts are configured and arranged to curve outward in the widthwise direction of the vehicle from the curvature transition points.

4. The vehicle body front section structure recited in claim 1, wherein the curved parts are configured and arranged to curve inward in the widthwise direction of the vehicle from the curvature transition points.

5. The vehicle body front section structure recited in claim 1, wherein the curved parts are configured and arranged to curve upward from the curvature transition points.

6. The vehicle body front section structure recited in claim 1, wherein the curved parts are configured and arranged as to curve downward from the curvature transition points.

5

7. The vehicle body front section structure recited in claim 3, wherein at least two end parts of the widthwise frame member that are disposed outwardly of the connection points of the longitudinal members are configured and arranged to curve in the rearward direction of the vehicle in a plan view.

10

8. The vehicle body front section structure recited in claim 1, further comprising

at least one additional pair of the longitudinal frame members disposed such that the longitudinal frame members are vertically arranged relative to each other, and

15

the curved parts of the longitudinal frame members on corresponding lateral sides of the vehicle being provided with curvatures oriented in the same direction.

9. The vehicle body front section structure recited in claim 8, wherein the curvatures of the curved parts of the longitudinal frame members are matched to be oriented inwardly in the widthwise direction of the vehicle.

20

10. The vehicle body front section structure recited in claim 8, wherein the curvatures of the curved parts of the longitudinal frame members are matched so as to be oriented outwardly in the widthwise direction of the vehicle.

25

11. The vehicle body front section structure recited in claim 8, wherein the curvatures of the curved parts of the longitudinal frame members are matched so as to be oriented upwardly.

30

12. The vehicle body front section structure recited in claim 8, wherein the curvatures of the curved parts of the longitudinal frame members are matched so as to be oriented downwardly.

13. The vehicle body front section structure, recited in claim 1, further comprising

at least one additional pair of the longitudinal frame members disposed such that  
5 the longitudinal frame members are vertically arranged relative to each other, and  
the curved parts of at least one of the pairs of the longitudinal frame members are  
provided with curvatures oriented in a different direction from at least one other of the  
pairs of the longitudinal frame members.

10 14. The vehicle body front section structure recited in claim 13, wherein  
the curvatures provided on the curved parts of the one of the pairs of the  
longitudinal frame members are oriented inwardly in the widthwise direction of the  
vehicle, and the curvatures provided on the curved parts of the other of the pairs of the  
longitudinal frame members are oriented in any one of the following directions: outwardly  
15 in the widthwise direction of the vehicle, upwardly, or downwardly.

15. The vehicle body front section structure recited in claim 13, wherein  
the curvatures provided on the curved parts of the one of the pairs of the  
longitudinal frame members are oriented outwardly in the widthwise direction of the  
20 vehicle and the curvatures provided on the curved parts of the other of the pairs of the  
longitudinal frame members are oriented in any one of the following directions: inwardly  
in the widthwise direction of the vehicle, upwardly, or downwardly.

16. The vehicle body front section structure recited in claim 13, wherein  
25 the curvatures provided on the curved parts of the one of the pairs of the  
longitudinal frame members are oriented upwardly in the widthwise direction of the  
vehicle and the curvatures provided on the curved parts of the other of the pairs of the  
longitudinal frame members are oriented in any one of the following directions: inwardly  
in the widthwise direction of the vehicle, outwardly in the widthwise direction of the  
30 vehicle, or downwardly.

17. The vehicle body front section structure recited in claim 8, wherein  
the curvatures provided on the curved parts of the one of the pairs of the  
longitudinal frame members are oriented downwardly of the vehicle and the curvatures  
provided on the curved parts of the other of the pairs of the longitudinal frame members  
5 are oriented in any one of the following directions: inwardly in the widthwise direction of  
the vehicle, outwardly in the widthwise direction of the vehicle, or upwardly.

18. A vehicle body front section structure comprising:  
longitudinal frame means for providing support on both widthwise sides of a front  
10 compartment in a lengthwise direction of a vehicle, the longitudinal frame means having a  
front end portion with a curved part disposed forwardly of a curvature transition point; and  
widthwise frame means for providing support between the front end portions of the  
longitudinal frame means in a widthwise direction of the vehicle to create a pair of wedge-  
shaped open spaces between the back surface of the widthwise frame means and  
15 corresponding wall surfaces of the curved parts that faces the back surface of the  
widthwise frame member.